1 Test Results for Mobile Device Acquisition Tool – Lantern v4.5.6

The main item of interest for interpreting the test results is determining the conformance of the tool under test. Conformance with each assertion tested by a given test case is evaluated by examining the **Log Highlights** box of the test report.

1.1 Test Results Report Key

The following table presents an explanation of each section of the test details in section 1.2. The Tester Name, Test Host, Test Date, Device, Source Setup and Log Highlights sections for each test case are populated by excerpts taken from the log files produced by the tool under test.

Heading	Description
First Line:	Test case ID, name, and version of tool tested.
Case Summary:	Test case summary from *Mobile Device Tool Test Assertions and Test Plan (Draft 1 Version 1.0, July 8, 2014)*.
Assertions:	The test assertions applicable to the test case, selected from *Mobile Device Tool Test Assertions and Test Plan (Draft 1 Version 1.0, July 8, 2014)*.
Tester Name:	Name or initials of person executing test procedure.
Test Host:	Host computer executing the test.
Test Date:	Time and date that test was started.
Device:	Source mobile device, SIM.
Source Setup:	Acquisition interface.
Log Highlights:	Information extracted from various log files to illustrate conformance or non-conformance to the test assertions.

Table 1: Test Results Report Key

1.2 *Test Results*

The test results are presented in this section.

1.2.1 MDT-01 – iPhone5 GSM

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:12:23 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:12:23 EDT 2015 Acquisition finished: Thu Apr 2 06:21:48 EDT 2015 Device connectivity was established via supported interface
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-01 Device connectivity via supported interfaces.	as expected

Analysis:	Expected results achieved

1.2.2 MDT-02 – iPhone5 GSM

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:12:59 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:12:59 EDT 2015 Acquisition finished: Thu Apr 2 06:22:04 EDT 2015 Device acquisition disruption notification was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-02 Notification of device acquisition disruption.	as expected

Analysis:	Expected results achieved

24 ## 1.2.3 MDT-03 – iPhone5 GSM

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:30:15 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:30:15 EDT 2015 Acquisition finished: Thu Apr 2 06:32:14 EDT 2015 Readability and completeness of acquired data was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected

Analysis:	Expected results achieved

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26 ## 1.2.4 MDT-04 – iPhone5 GSM

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:30:43 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:30:43 EDT 2015 Acquisition finished: Thu Apr 2 06:34:12 EDT 2015 Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	as expected

Analysis:	Expected results achieved

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29   1.2.5 MDT-05 – iPhone5 GSM

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 09:37:38 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 09:37:38 EDT 2015 Acquisition finished: Thu Apr 2 11:31:18 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported ALL MMS messages (Audio, Image, Video) were acquired ALL stand-alone data files (Audio, Image, Video) were acquired All application data was acquired Partial Internet related data was acquired Partial Social media related data was acquired **Notes:** Only first and last names were reported for contacts. Attachments were not included in email data. Media is not reported in the Lantern sidebar. Facebook and Twitter were not reported in the Lantern sidebar. Social media related data was partially reported. Gmail is not reported in the Lantern sidebar.
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.</td><td>Partial</td></tr></table>
Analysis:	Partial results achieved

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32 ## 1.2.6 MDT-06 – iPhone5 GSM

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:51:51 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:51:51 EDT 2015 Acquisition finished: Thu Apr 2 07:08:49 EDT 2015 Acquire All acquisition was successful
Results:	<table><tr><td>Assertion & Expected Result</td><td>Actual Result</td></tr><tr><td>MDT-CA-06 Acquire-all mobile device data objects acquisition.</td><td>as expected</td></tr><tr><td>MDT-CA-07 Select-all mobile device data objects acquisition.</td><td>NA</td></tr><tr><td>MDT-CA-08 Select-individual mobile device data objects acquisition.</td><td>NA</td></tr><tr><td>MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

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34 ## 1.2.7 MDT-12 – iPhone5 GSM

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 07:13:40 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 07:13:40 EDT 2015 Acquisition finished: Thu Apr 2 07:49:07 EDT 2015 Notification of modified device memory data was not successful **Notes:**

Test Case MDT-12 Lantern v4.5.6	
	Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

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1.2.8 MDT-19 – iPhone5 GSM

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:10:24 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:10:24 EDT 2015 Acquisition finished: Thu Apr 2 08:13:20 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected

Analysis:	Expected results achieved

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1.2.9 MDT-22 – iPhone5 GSM

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:16:32 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:16:32 EDT 2015 Acquisition finished: Thu Apr 2 08:24:20 EDT 2015 Hash values were properly reported for individually acquired device data elements

Test Case MDT-22 Lantern v4.5.6	
Results:	<table><tr><td>**Assertion & Expected Result**</td><td>**Actual Result**</td></tr><tr><td>MDT-AO-15 Hash values for individual data and case presented in a useable format.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

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1.2.10   MDT-24 – iPhone5 GSM

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:27:44 EDT 2015
Device:	iPhone5_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:27:44 EDT 2015 Acquisition finished: Thu Apr 2 09:20:42 EDT 2015 GPS Coordinate data was not successfully acquired **Notes:** The KMZ file was not reported. Partial location information can be located in: /private/var/mobile/library/maps/Direction.mapsdata
Results:	<table><tr><td>**Assertion & Expected Result**</td><td>**Actual Result**</td></tr><tr><td>MDT-AO-16 Acquisition of GPS related data presented in a useable format.</td><td>Not as expected</td></tr></table>
Analysis:	Expected results Not achieved

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1.2.11   MDT-01 – iPhone5S CDMA

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:13:42 EDT 2015
Device:	iPhone5S_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:13:42 EDT 2015 Acquisition finished: Thu Apr 2 06:23:20 EDT 2015

Test Case MDT-01 Lantern v4.5.6	
	Device connectivity was established via supported interface **Notes:** Lantern prompted user for iTunes Encryption password. Without the password the following data elements are acquired: System Data, App Data, Photos, Video, and Media.
Results:	<table><tr><td>**Assertion & Expected Result**</td><td>**Actual Result**</td></tr><tr><td>MDT-CA-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

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1.2.12   MDT-02 – iPhone5S CDMA

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:14:01 EDT 2015
Device:	iPhone5S_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:14:01 EDT 2015 Acquisition finished: Thu Apr 2 06:23:26 EDT 2015 Device acquisition disruption notification was successful
Results:	<table><tr><td>**Assertion & Expected Result**</td><td>**Actual Result**</td></tr><tr><td>MDT-CA-02 Notification of device acquisition disruption.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

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1.2.13   MDT-03 – iPhone5S CDMA

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:31:14 EDT 2015
Device:	iPhone5S_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:31:14 EDT 2015 Acquisition finished: Thu Apr 2 06:43:53 EDT 2015 Readability and completeness of acquired data was successful

Test Case MDT-03 Lantern v4.5.6		
Results:	**Assertion & Expected Result**	**Actual Result**
	MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected
Analysis:	Expected results achieved	

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1.2.14   MDT-04 – iPhone5S CDMA

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Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:31:38 EDT 2015
Device:	iPhone5S_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:31:38 EDT 2015 Acquisition finished: Thu Apr 2 06:44:00 EDT 2015 IMEI, MEID/ESN were acquired

	Assertion & Expected Result	**Actual Result**
Results:	MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	as expected
Analysis:	Expected results achieved	

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1.2.15   MDT-05 – iPhone5S CDMA

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Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 09:38:12 EDT 2015
Device:	iPhone5S_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 09:38:12 EDT 2015 Acquisition finished: Thu Apr 2 11:31:26 EDT 2015 All stand-alone data files (Audio, Image, Video) were acquired

Test Case MDT-05 Lantern v4.5.6	
	Application data was not acquired Internet related data was not acquired Partial Social media related data was acquired **Notes:** Facebook and Twitter were not reported in the Lantern sidebar. Partial social media related data for LinkedIn was reported. No social media data for facebook or twitter was reported.
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Expected results Not achieved

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52   1.2.16   MDT-06 – iPhone5S CDMA

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:51:25 EDT 2015
Device:	iPhone5S_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:51:25 EDT 2015 Acquisition finished: Thu Apr 2 07:08:56 EDT 2015 Acquire All acquisition was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
MDT-CA-07 Select-all mobile device data objects acquisition.	NA
MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected

Analysis:	Expected results achieved

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54 ## 1.2.17   MDT-12 – iPhone5S CDMA

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 07:14:09 EDT 2015
Device:	iPhone5S_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 07:14:09 EDT 2015 Acquisition finished: Thu Apr 2 07:52:40 EDT 2015 Notification of modified device memory data was not successful **Notes:** Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

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56 ## 1.2.18   MDT-22 – iPhone5S CDMA

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:16:57 EDT 2015
Device:	iPhone5S_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:16:57 EDT 2015 Acquisition finished: Thu Apr 2 08:24:53 EDT 2015 Hash values were properly reported for individually acquired device data elements
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

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58 ## 1.2.19   MDT-01 – iPad GSM

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:14:25 EDT 2015
Device:	iPad_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:14:25 EDT 2015 Acquisition finished: Thu Apr 2 06:24:16 EDT 2015 Device connectivity was established via supported interface
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-01 Device connectivity via supported interfaces.	as expected

Analysis:	Expected results achieved

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60 ## 1.2.20   MDT-02 – iPad GSM

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:14:47 EDT 2015
Device:	iPad_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:14:47 EDT 2015 Acquisition finished: Thu Apr 2 06:24:26 EDT 2015 Device acquisition disruption notification was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-02 Notification of device acquisition disruption.	as expected

Analysis:	Expected results achieved

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66   ## 1.2.21   MDT-03 – iPad GSM

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:32:14 EDT 2015
Device:	iPadGSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:32:14 EDT 2015 Acquisition finished: Thu Apr 2 06:45:20 EDT 2015 Readability and completeness of acquired data was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected

Analysis:	Expected results achieved

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68   ## 1.2.22   MDT-04 – iPad GSM

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:32:33 EDT 2015
Device:	iPad_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:32:33 EDT 2015 Acquisition finished: Thu Apr 2 06:45:27 EDT 2015 Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	as expected

Analysis:	Expected results achieved

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71 ## 1.2.23   MDT-05 – iPad GSM

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 09:38:49 EDT 2015
Device:	iPad GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 09:38:49 EDT 2015 Acquisition finished: Thu Apr 2 11:31:35 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported ALL MMS messages (Audio, Image, Video) were acquired ALL stand-alone data files (Audio, Image, Video) were acquired All application data was acquired All Internet related data was acquired Partial Social media related data was acquired **Notes:** Only first and last names were reported for contacts. Recovered MMS messages did not contain associated attachments. Media is not reported in the Lantern sidebar. Attachments were not included in email data. LinkedIn, facebook and twitter were not reported in the Lantern sidebar. Social media related data was partially reported.
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.</td><td>Partial</td></tr></table>
Analysis:	Partial results achieved

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77 ## 1.2.24   MDT-06 – iPad GSM

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:52:12 EDT 2015
Device:	iPad_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:52:12 EDT 2015 Acquisition finished: Thu Apr 2 07:09:04 EDT 2015 Acquire All acquisition was successful
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-06 Acquire-all mobile device data objects acquisition.</td><td>as expected</td></tr><tr><td>MDT-CA-07 Select-all mobile device data objects acquisition.</td><td>NA</td></tr><tr><td>MDT-CA-08 Select-individual mobile device data objects acquisition.</td><td>NA</td></tr><tr><td>MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

78

79 ## 1.2.25   MDT-12 – iPad GSM

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 07:14:51 EDT 2015
Device:	iPad_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 07:14:51 EDT 2015 Acquisition finished: Thu Apr 2 07:53:25 EDT 2015 Notification of modified device memory data was not successful **Notes:**

Test Case MDT-12 Lantern v4.5.6	
	Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	
		Assertion & Expected Result	Actual Result	
	|---|---|
		MDT-AO-08 Notification of modified device case data.	Not as expected	
Analysis:	Expected results Not achieved

80

1.2.26 MDT-19 – iPad GSM

81

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:10:55 EDT 2015
Device:	iPad_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:10:55 EDT 2015 Acquisition finished: Thu Apr 2 08:13:44 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	
		Assertion & Expected Result	Actual Result	
	|---|---|
		MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected	
Analysis:	Expected results achieved

82

1.2.27 MDT-22 – iPad GSM

83

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:17:24 EDT 2015
Device:	iPad_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:17:24 EDT 2015 Acquisition finished: Thu Apr 2 08:25:13 EDT 2015 Hash values were properly reported for individually acquired device data elements

Test Case MDT-22 Lantern v4.5.6		
Results:	**Assertion & Expected Result**	**Actual Result**
	MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected
Analysis:	Expected results achieved	

84

1.2.28   MDT-24 – iPad GSM

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:28:16 EDT 2015
Device:	iPad_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:28:16 EDT 2015 Acquisition finished: Thu Apr 2 09:29:47 EDT 2015 GPS Coordinate data was not successfully acquired **Notes:** The KMZ file was not reported. Partial location information can be located in: /private/var/mobile/library/maps/Direction.mapsdata

	Assertion & Expected Result	**Actual Result**
Results:	MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected
Analysis:	Expected results Not achieved	

86

1.2.29   MDT-01 – iPad CDMA

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:17:24 EDT 2015
Device:	iPad_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:17:24 EDT 2015 Acquisition finished: Thu Apr 2 06:27:06 EDT 2015

Test Case MDT-01 Lantern v4.5.6	
	Device connectivity was established via supported interface

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-01 Device connectivity via supported interfaces.	as expected

Analysis:	Expected results achieved

88

1.2.30   MDT-02 – iPad CDMA

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:17:41 EDT 2015
Device:	iPad_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:17:41 EDT 2015 Acquisition finished: Thu Apr 2 06:27:14 EDT 2015 Device acquisition disruption notification was successful

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-02 Notification of device acquisition disruption.	as expected

Analysis:	Expected results achieved

90

1.2.31   MDT-03 – iPad CDMA

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:32:55 EDT 2015
Device:	iPad_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:32:55 EDT 2015 Acquisition finished: Thu Apr 2 06:46:12 EDT 2015 Readability and completeness of acquired data was successful

Results:		
	Assertion & Expected Result	**Actual Result**

91

Test Case MDT-03 Lantern v4.5.6		
	MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected
Analysis:	Expected results achieved	

92

1.2.32   MDT-04 – iPad CDMA

93

Test Case MDT-04 Lantern v4.5.6		
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).	
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.	
Tester Name:	rpa	
Test Host:	p644381	
Test Date:	Thu Apr 2 06:33:20 EDT 2015	
Device:	iPad_CDMA	
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable	
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:33:20 EDT 2015 Acquisition finished: Thu Apr 2 06:46:20 EDT 2015 IMEI, MEID/ESN were acquired	
Results:		

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	as expected

Analysis:	Expected results achieved	

94

1.2.33   MDT-05 – iPad CDMA

95

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 09:39:25 EDT 2015
Device:	iPad_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 09:39:25 EDT 2015 Acquisition finished: Thu Apr 2 11:32:11 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired

Test Case MDT-05 Lantern v4.5.6	
	Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported ALL MMS messages (Audio, Image, Video) were acquired ALL stand-alone data files (Audio, Image, Video) were acquired All application data was acquired All Internet related data was acquired Partial Social media related data was acquired **Notes:** Only first and last name were reported for contacts. Attachments were not included in email data. LinkedIn, Facebook, Twitter not reported in Lantern sidebar. Social media related data was partially reported.

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Partial results achieved

96

97 1.2.34   MDT-06 – iPad CDMA

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:52:32 EDT 2015
Device:	iPad_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:52:32 EDT 2015 Acquisition finished: Thu Apr 2 07:09:14 EDT 2015 Acquire All acquisition was successful

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
	MDT-CA-07 Select-all mobile device data objects acquisition.	NA

Test Case MDT-06 Lantern v4.5.6		
	MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
	MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

98

1.2.35   MDT-12 – iPad CDMA

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 07:15:10 EDT 2015
Device:	iPad_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 07:15:10 EDT 2015 Acquisition finished: Thu Apr 2 07:54:15 EDT 2015 Notification of modified device memory data was not successful **Notes**: Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

100

1.2.36   MDT-19 – iPad CDMA

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:11:22 EDT 2015
Device:	iPad_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:11:22 EDT 2015 Acquisition finished: Thu Apr 2 08:14:21 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Test Case MDT-19 Lantern v4.5.6		
	Assertion & Expected Result	**Actual Result**
	MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected
Analysis:	Expected results achieved	

102

1.2.37　　MDT-22 – iPad CDMA

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:17:48 EDT 2015
Device:	iPad_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:17:48 EDT 2015 Acquisition finished: Thu Apr 2 08:25:46 EDT 2015 Hash values were properly reported for individually acquired device data elements
Results:	

	Assertion & Expected Result	**Actual Result**
	MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

104

1.2.38　　MDT-24 – iPad CDMA

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:28:44 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:28:44 EDT 2015 Acquisition finished: Thu Apr 2 09:30:01 EDT 2015 GPS Coordinate data was not successfully acquired **Notes:** The KMZ file was not reported. Partial location information can be located in: /private/var/mobile/library/maps/Direction.mapsdata

Test Case MDT-24 Lantern v4.5.6		
Results:		

Assertion & Expected Result	Actual Result
MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected

Analysis:	Expected results Not achieved

106
107

1.2.39 MDT-01 – iPadMini GSM

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:18:03 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:18:03 EDT 2015 Acquisition finished: Thu Apr 2 06:28:02 EDT 2015 Device connectivity was established via supported interface
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-01 Device connectivity via supported interfaces.	as expected

Analysis:	Expected results achieved

109

1.2.40 MDT-02 – iPadMini GSM

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:18:35 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:18:35 EDT 2015 Acquisition finished: Thu Apr 2 06:28:25 EDT 2015 Device acquisition disruption notification was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-02 Notification of device acquisition disruption.	as expected

Test Case MDT-02 Lantern v4.5.6	
Analysis:	Expected results achieved

111

1.2.41   MDT-03 – iPadMini GSM

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:33:41 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:33:41 EDT 2015 Acquisition finished: Thu Apr 2 06:47:57 EDT 2015 Readability and completeness of acquired data was successful
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-03 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

113

1.2.42   MDT-04 – iPadMini GSM

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:33:58 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:33:58 EDT 2015 Acquisition finished: Thu Apr 2 06:48:08 EDT 2015 Subscriber and Equipment related data (i.e., MSISDN, IMEI) were acquired
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.</td><td>as expected</td></tr></table>

Test Case MDT-04 Lantern v4.5.6	
Analysis:	Expected results achieved

115

116   1.2.43   MDT-05 – iPadMini GSM

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 09:39:50 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 09:39:50 EDT 2015 Acquisition finished: Thu Apr 2 11:32:20 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported ALL MMS messages (Audio, Image, Video) were acquired ALL stand-alone data files (Audio, Image, Video) were acquired All application data was acquired All Internet related data was acquired Partial Social media related data was acquired **Notes:** Only first and last names were reported for contacts. Attachments were not included in email data. Partial social media related data was recovered for facebook, Linkedin, and Twitter. LinkedIn and Twitter were not reported in Lantern sidebar.
Results:	
Analysis:	Partial results achieved

Assertion & Expected Result	Actual Result
MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

117
118

119 ## 1.2.44   MDT-06 – iPadMini GSM

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:52:54 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:52:54 EDT 2015 Acquisition finished: Thu Apr 2 07:09:23 EDT 2015 Acquire All acquisition was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
MDT-CA-07 Select-all mobile device data objects acquisition.	NA
MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected

Analysis:	Expected results achieved

120

121 ## 1.2.45   MDT-12 – iPadMini GSM

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 07:15:36 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 07:15:36 EDT 2015 Acquisition finished: Thu Apr 2 07:54:58 EDT 2015 Notification of modified device memory data was not successful **Notes:**

Test Case MDT-12 Lantern v4.5.6	
	Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

122

1.2.46   MDT-19 – iPadMini GSM

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:11:47 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:11:47 EDT 2015 Acquisition finished: Thu Apr 2 08:14:55 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected

Analysis:	Expected results achieved

124

1.2.47   MDT-22 – iPadMini GSM

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:18:12 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:18:12 EDT 2015 Acquisition finished: Thu Apr 2 08:26:05 EDT 2015 Hash values were properly reported for individually acquired device data elements

Test Case MDT-22 Lantern v4.5.6	

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

126

1.2.48   MDT-24 – iPadMini GSM

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:29:29 EDT 2015
Device:	iPadMini_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:29:29 EDT 2015 Acquisition finished: Thu Apr 2 09:30:11 EDT 2015 GPS Coordinate data was not successfully acquired **Notes:** The KMZ file was not reported. Partial location information can be located in: /private/var/mobile/library/maps/Direction.mapsdata

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected

Analysis:	Expected results Not achieved

128

1.2.49   MDT-01 – iPadMini CDMA

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:19:58 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:19:58 EDT 2015 Acquisition finished: Thu Apr 2 06:29:19 EDT 2015

Test Case MDT-01 Lantern v4.5.6	
	Device connectivity was established via supported interface
Results:	
		Assertion & Expected Result	Actual Result	
		MDT-CA-01 Device connectivity via supported interfaces.	as expected	
Analysis:	Expected results achieved

130

1.2.50   MDT-02 – iPadMini CDMA

131

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:20:29 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:20:29 EDT 2015 Acquisition finished: Thu Apr 2 06:29:26 EDT 2015 Device acquisition disruption notification was successful
Results:	
		Assertion & Expected Result	Actual Result	
		MDT-CA-02 Notification of device acquisition disruption.	as expected	
Analysis:	Expected results achieved

132

1.2.51   MDT-03 – iPadMini CDMA

133

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:34:23 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:34:23 EDT 2015 Acquisition finished: Thu Apr 2 06:48:20 EDT 2015 Readability and completeness of acquired data was successful
Results:	
		Assertion & Expected Result	Actual Result	

Test Case MDT-03 Lantern v4.5.6		
	MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected
Analysis:	Expected results achieved	

134

1.2.52   MDT-04 – iPadMini CDMA

135

Test Case MDT-04 Lantern v4.5.6		
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).	
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.	
Tester Name:	rpa	
Test Host:	p644381	
Test Date:	Thu Apr 2 06:34:45 EDT 2015	
Device:	iPadMini_CDMA	
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable	
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:34:45 EDT 2015 Acquisition finished: Thu Apr 2 06:48:32 EDT 2015 IMEI, MEID/ESN were acquired	
Results:		

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	as expected

Analysis:	Expected results achieved	

136

1.2.53   MDT-05 – iPadMini CDMA

137

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 09:41:52 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 09:41:52 EDT 2015 Acquisition finished: Thu Apr 2 11:32:29 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were not acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired

Test Case MDT-05 Lantern v4.5.6	
	Embedded graphics within Address Book entries were acquired ALL PIM related data was acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported ALL MMS messages (Audio, Image, Video) were acquired ALL stand-alone data files (Audio, Image, Video) were acquired All application data was acquired All Internet related data was acquired Partial Social media related data was acquired **Notes:** Only first and last name were reported for contacts. Attachments were not included in email data. LinkedIn and Twitter were not reported in Lantern sidebar. Partial social media related data was recovered for facebook. No social media related data was recovered for LinkedIn or Twitter. Gmail is not reported in the Lantern sidebar.

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Partial results achieved

138

1.2.54   MDT-06 – iPadMini CDMA

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 06:53:21 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 06:53:21 EDT 2015 Acquisition finished: Thu Apr 2 07:09:39 EDT 2015 Acquire All acquisition was successful

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected

Test Case MDT-06 Lantern v4.5.6		
	MDT-CA-07 Select-all mobile device data objects acquisition.	NA
	MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
	MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

140

141 **1.2.55   MDT-12 – iPadMini CDMA**

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 07:16:02 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 07:16:02 EDT 2015 Acquisition finished: Thu Apr 2 07:55:44 EDT 2015 Notification of modified device memory data was not successful **Notes**: Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

142

143 **1.2.56   MDT-19 – iPadMini CDMA**

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:12:30 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:12:30 EDT 2015 Acquisition finished: Thu Apr 2 08:15:30 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed

Test Case MDT-19 Lantern v4.5.6	

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected

Analysis:	Expected results achieved

144

145 **1.2.57   MDT-22 – iPadMini CDMA**

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:18:37 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:18:37 EDT 2015 Acquisition finished: Thu Apr 2 08:26:35 EDT 2015 Hash values were properly reported for individually acquired device data elements

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

146

147 **1.2.58   MDT-24 – iPadMini CDMA**

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Thu Apr 2 08:29:56 EDT 2015
Device:	iPadMini_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Thu Apr 2 08:29:56 EDT 2015 Acquisition finished: Thu Apr 2 09:30:25 EDT 2015 GPS Coordinate data was not successfully acquired **Notes:**

Test Case MDT-24 Lantern v4.5.6	
	The KMZ file was not reported. Partial location information can be located in: /private/var/mobile/library/maps/Direction.mapsdata
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected

Analysis:	Expected results Not achieved

148

149 1.2.59   MDT-01 – Galaxy S3

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 06:57:38 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 06:57:38 EDT 2015 Acquisition finished: Tue Apr 7 13:13:44 EDT 2015 Device connectivity was established via supported interface **Notes**: Info and Files were not reported after subsequent acquisitions.
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-01 Device connectivity via supported interfaces.	as expected

Analysis:	Expected results achieved

150

151 1.2.60   MDT-02 – Galaxy S3

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 06:58:00 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 06:58:00 EDT 2015 Acquisition finished: Tue Apr 7 13:13:51 EDT 2015 Device acquisition disruption notification was not successful

Test Case MDT-02 Lantern v4.5.6	
	Notes: When disrupting the acquisition process by removing the plug from the mobile device, an error message is not produced.
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-02 Notification of device acquisition disruption.	Not as expected

Analysis:	Expected results Not achieved

152

1.2.61   MDT-03 – Galaxy S3

153

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 06:58:22 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 06:58:22 EDT 2015 Acquisition finished: Tue Apr 7 13:13:56 EDT 2015 Readability and completeness of acquired data was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected

Analysis:	Expected results achieved

154

1.2.62   MDT-04 – Galaxy S3

155

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 06:58:45 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 06:58:45 EDT 2015 Acquisition finished: Tue Apr 7 13:14:06 EDT 2015

Test Case MDT-04 Lantern v4.5.6	
	MSISDN and IMEI were not acquired **Notes:** The MSISDN, IMEI, or ICCID were not reported in "Info".
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	Not as expected

Analysis:	Expected results Not achieved

156

157 1.2.63 MDT-05 – Galaxy S3

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 06:59:05 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 06:59:05 EDT 2015 Acquisition finished: Tue Apr 7 13:14:13 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were not acquired Basic PIM related data was not acquired Maximum length PIM related data was not acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported Audio MMS messages were not acquired Image MMS messages were not acquired Video MMS messages were not acquired ALL stand-alone data files (Audio, Image, Video) were acquired All application data was acquired All Internet related data was acquired Social media related data was not acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Test Case MDT-05 Lantern v4.5.6	
Analysis:	Partial results achieved

158

1.2.64　　MDT-06 – Galaxy S3

159

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 06:59:55 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 06:59:55 EDT 2015 Acquisition finished: Tue Apr 7 13:14:19 EDT 2015 Acquire All acquisition was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
MDT-CA-07 Select-all mobile device data objects acquisition.	NA
MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected

Analysis:	Expected results achieved

160

1.2.65　　MDT-12 – Galaxy S3

161

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:00:24 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:00:24 EDT 2015

Test Case MDT-12 Lantern v4.5.6	
	Acquisition finished: Tue Apr 7 13:14:27 EDT 2015 Notification of modified device memory data was not successful **Notes:** Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

162

163   1.2.66   MDT-19 – Galaxy S3

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:00:46 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:00:46 EDT 2015 Acquisition finished: Tue Apr 7 13:14:34 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected

Analysis:	Expected results achieved

164

165   1.2.67   MDT-22 – Galaxy S3

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:01:15 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:01:15 EDT 2015

Test Case MDT-22 Lantern v4.5.6	
	Acquisition finished: Tue Apr 7 13:14:40 EDT 2015 Hash values were properly reported for individually acquired device data elements
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

166

1.2.68   MDT-24 – Galaxy S3

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:02:05 EDT 2015
Device:	GalaxyS3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:02:05 EDT 2015 Acquisition finished: Tue Apr 7 13:14:45 EDT 2015 GPS Coordinate data was not successfully acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected

Analysis:	Expected results Not achieved

168

1.2.69   MDT-01 – Galaxy S4

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:02:51 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:02:51 EDT 2015 Acquisition finished: Tue Apr 7 13:14:53 EDT 2015

Test Case MDT-01 Lantern v4.5.6	
	Device connectivity was established via supported interface

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-01 Device connectivity via supported interfaces.	as expected

Analysis:	Expected results achieved

170

1.2.70   MDT-02 – Galaxy S4

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:03:15 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:03:15 EDT 2015 Acquisition finished: Tue Apr 7 13:14:58 EDT 2015 Device acquisition disruption notification was successful

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-02 Notification of device acquisition disruption.	as expected

Analysis:	Expected results achieved

172

1.2.71   MDT-03 – Galaxy S4

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:03:38 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:03:38 EDT 2015 Acquisition finished: Tue Apr 7 13:15:05 EDT 2015 Readability and completeness of acquired data was successful

Results:		
	Assertion & Expected Result	**Actual Result**

Test Case MDT-03 Lantern v4.5.6		
	MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected
Analysis:	Expected results achieved	

174

1.2.72   MDT-04 – Galaxy S4

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:04:02 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:04:02 EDT 2015 Acquisition finished: Tue Apr 7 13:15:11 EDT 2015 MSISDN and IMEI were not acquired **Notes:** The MSISDN, IMEI, or ICCID were not reported in "Info".
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	Not as expected

Analysis:	Expected results Not achieved

176

1.2.73   MDT-05 – Galaxy S4

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:04:22 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:04:22 EDT 2015 Acquisition finished: Tue Apr 7 13:15:20 EDT 2015 Regular Length Address Book entries were not acquired Maximum Length Address Book entries were not acquired

Test Case MDT-05 Lantern v4.5.6	
	Special Character Address Book entries were not acquired Blank Name Address Book entries were not acquired Email addresses within Address Book entries were not acquired Embedded graphics within Address Book entries were not acquired Basic PIM related data was not acquired Maximum length PIM related data was not acquired Incoming Calls were not acquired Outgoing Calls were not acquired Missed Calls were not acquired Date/Time Stamps incorrectly reported for Incoming Calls Date/Time Stamps incorrectly reported for Outgoing Calls Date/Time Stamps incorrectly reported for Missed Calls Text messages were not acquired Incorrect status flags were reported for text messages Sender and Recipient phone numbers associated with text messages were incorrectly reported Audio MMS messages were not acquired Image MMS messages were not acquired Video MMS messages were not acquired Audio files were not acquired Image files were not acquired Video files were not acquired Application data was not acquired Internet related data was not acquired Social media related data was not acquired

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Expected results Not achieved

178

179 1.2.74   MDT-06 – Galaxy S4

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:04:43 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:04:43 EDT 2015 Acquisition finished: Tue Apr 7 13:15:26 EDT 2015 Acquire All acquisition was successful
Results:	

Test Case MDT-06 Lantern v4.5.6		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
	MDT-CA-07 Select-all mobile device data objects acquisition.	NA
	MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
	MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

180

1.2.75   MDT-12 – Galaxy S4

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:05:05 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:05:05 EDT 2015 Acquisition finished: Tue Apr 7 13:15:31 EDT 2015 Notification of modified device memory data was not successful **Notes:** Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

182

1.2.76   MDT-22 – Galaxy S4

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:06:02 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log	Created by Lantern v4.5.6

Test Case MDT-22 Lantern v4.5.6	
Highlights:	Acquisition started: Tue Apr 7 07:06:02 EDT 2015 Acquisition finished: Tue Apr 7 13:15:41 EDT 2015 Hash values were properly reported for individually acquired device data elements
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

184

1.2.77   MDT-24 – Galaxy S4

185

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:06:29 EDT 2015
Device:	GalaxyS4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:06:29 EDT 2015 Acquisition finished: Tue Apr 7 13:15:48 EDT 2015 GPS Coordinate data was not successfully acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected

Analysis:	Expected results Not achieved

186

1.2.78   MDT-01 – Galaxy S5

187

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:07:00 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:07:00 EDT 2015 Acquisition finished: Tue Apr 7 13:15:55 EDT 2015

Test Case MDT-01 Lantern v4.5.6	
	Device connectivity was established via supported interface **Notes**: Info and Files were not reported after subsequent acquisitions.
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-01 Device connectivity via supported interfaces.	as expected

Analysis:	Expected results achieved

188

1.2.79   MDT-02 – Galaxy S5

189

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:07:20 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:07:20 EDT 2015 Acquisition finished: Tue Apr 7 13:16:01 EDT 2015 Device acquisition disruption notification was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-02 Notification of device acquisition disruption.	as expected

Analysis:	Expected results achieved

190

1.2.80   MDT-03 – Galaxy S5

191

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:07:40 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:07:40 EDT 2015 Acquisition finished: Tue Apr 7 13:16:06 EDT 2015 Readability and completeness of acquired data was successful

Test Case MDT-03 Lantern v4.5.6	
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected

Analysis:	Expected results achieved

192

1.2.81   MDT-04 – Galaxy S5

193

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:08:04 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:08:04 EDT 2015 Acquisition finished: Tue Apr 7 13:16:10 EDT 2015 IMEI, MEID/ESN were not acquired **Notes:** The MSISDN, IMEI, or ICCID were not reported in "Info".
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	Not as expected

Analysis:	Expected results Not achieved

194

1.2.82   MDT-05 – Galaxy S5

195

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:08:54 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:08:54 EDT 2015 Acquisition finished: Tue Apr 7 13:16:15 EDT 2015

Test Case MDT-05 Lantern v4.5.6	
	Regular Length Address Book entries were acquired Maximum Length Address Book entries were acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were not acquired Basic PIM related data was not acquired Maximum length PIM related data was not acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported Audio MMS messages were not acquired Image MMS messages were not acquired Video MMS messages were not acquired Audio files were not acquired Image files were acquired Video files were acquired All application data was acquired All Internet related data was acquired Social media related data was not acquired

Results:

Assertion & Expected Result	Actual Result
MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Expected results Not achieved

196

197 1.2.83   MDT-06 – Galaxy S5

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:09:13 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:09:13 EDT 2015 Acquisition finished: Tue Apr 7 13:16:19 EDT 2015 Acquire All acquisition was successful
Results:	

Test Case MDT-06 Lantern v4.5.6		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
	MDT-CA-07 Select-all mobile device data objects acquisition.	NA
	MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
	MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved	

198

199   1.2.84   MDT-12 – Galaxy S5

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:09:31 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:09:31 EDT 2015 Acquisition finished: Tue Apr 7 13:16:25 EDT 2015 Notification of modified device memory data was not successful **Notes:** Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

200
201

202 ## 1.2.85   MDT-19 – Galaxy S5

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:10:05 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:10:05 EDT 2015 Acquisition finished: Tue Apr 7 13:16:32 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected

Analysis:	Expected results achieved

203

204 ## 1.2.86   MDT-22 – Galaxy S5

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:10:25 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:10:25 EDT 2015 Acquisition finished: Tue Apr 7 13:16:40 EDT 2015 Hash values were properly reported for individually acquired device data elements
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

205
206

207   ## 1.2.87   MDT-24 – Galaxy S5

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:10:51 EDT 2015
Device:	GalaxyS5
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:10:51 EDT 2015 Acquisition finished: Tue Apr 7 13:16:45 EDT 2015 GPS Coordinate data was not successfully acquired
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-AO-16 Acquisition of GPS related data presented in a useable format.</td><td>Not as expected</td></tr></table>
Analysis:	Expected results Not achieved

208
209

210   ## 1.2.88   MDT-01 – Galaxy Note 3

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:27:36 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:27:36 EDT 2015 Acquisition finished: Tue Apr 7 13:17:15 EDT 2015 Device connectivity was established via supported interface
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

211

212

213 ## 1.2.89   MDT-02 – Galaxy Note 3

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:27:59 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:27:59 EDT 2015 Acquisition finished: Tue Apr 7 13:17:22 EDT 2015 Device acquisition disruption notification was not successful **Notes:** When disrupting the acquisition process by removing the plug from the mobile device, an error message is not produced.
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-02 Notification of device acquisition disruption.	Not as expected

Analysis:	Expected results Not achieved

214

215 ## 1.2.90   MDT-03 – Galaxy Note 3

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:28:18 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:28:18 EDT 2015 Acquisition finished: Tue Apr 7 13:17:26 EDT 2015 Readability and completeness of acquired data was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected

Analysis:	Expected results achieved

216
217

218 ## 1.2.91 MDT-04 – Galaxy Note 3

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:28:41 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:28:41 EDT 2015 Acquisition finished: Tue Apr 7 13:17:31 EDT 2015 IMEI, MEID/ESN were not acquired **Notes**: The MSISDN, IMEI, or ICCID were not reported in "Info".
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	Not as expected

Analysis:	Expected results Not achieved

219

220 ## 1.2.92 MDT-05 – Galaxy Note 3

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:28:59 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:28:59 EDT 2015 Acquisition finished: Tue Apr 7 13:17:36 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were not acquired Basic PIM related data was not acquired Maximum length PIM related data was not acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired

Test Case MDT-05 Lantern v4.5.6	
	Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported Audio MMS messages were not acquired Image MMS messages were not acquired Video MMS messages were not acquired Audio files were not acquired Image files were not acquired Video files were not acquired All application data was acquired Internet related data was not acquired Social media related data was not acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Partial results achieved

221

1.2.93   MDT-06 – Galaxy Note 3

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:29:19 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:29:19 EDT 2015 Acquisition finished: Tue Apr 7 13:17:41 EDT 2015 Acquire All acquisition was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
MDT-CA-07 Select-all mobile device data objects acquisition.	NA
MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected

Analysis:	Expected results achieved

223   ## 1.2.94   MDT-12 – Galaxy Note 3

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:29:36 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:29:36 EDT 2015 Acquisition finished: Tue Apr 7 13:17:47 EDT 2015 Notification of modified device memory data was not successful **Notes:** Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

224

225   ## 1.2.95   MDT-19 – Galaxy Note 3

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:29:55 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:29:55 EDT 2015 Acquisition finished: Tue Apr 7 13:17:54 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected

Analysis:	Expected results achieved

226
227

228 ## 1.2.96   MDT-22 – Galaxy Note 3

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:30:20 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:30:20 EDT 2015 Acquisition finished: Tue Apr 7 13:18:00 EDT 2015 Hash values were properly reported for individually acquired device data elements
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

229

230 ## 1.2.97   MDT-24 – Galaxy Note 3

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:30:40 EDT 2015
Device:	GalaxyNote3
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:30:40 EDT 2015 Acquisition finished: Tue Apr 7 13:18:06 EDT 2015 GPS Coordinate data was not successfully acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected

Analysis:	Expected results Not achieved

231
232

233   ## 1.2.98   MDT-01 – HTC One GSM

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:47:32 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:47:32 EDT 2015 Acquisition finished: Tue Apr 7 13:18:17 EDT 2015 Device connectivity was established via supported interface
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-01 Device connectivity via supported interfaces.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

234

235   ## 1.2.99   MDT-02 – HTC One GSM

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:47:51 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:47:51 EDT 2015 Acquisition finished: Tue Apr 7 13:18:23 EDT 2015 Device acquisition disruption notification was successful
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-02 Notification of device acquisition disruption.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

236
237

238   ## 1.2.100   MDT-03 – HTC One GSM

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:48:12 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:48:12 EDT 2015 Acquisition finished: Tue Apr 7 13:18:29 EDT 2015 Readability and completeness of acquired data was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-03 Readability and completeness of acquired data via supported reports.	as expected

Analysis:	Expected results achieved

239

240   ## 1.2.101   MDT-04 – HTC One GSM

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:48:30 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:48:30 EDT 2015 Acquisition finished: Tue Apr 7 13:18:35 EDT 2015 MSISDN and IMEI were not acquired **Notes:** The MSISDN, IMEI, or ICCID were not reported in "Info".
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.	Not as expected

Analysis:	Expected results Not achieved

241
242

243 ## 1.2.102   MDT-05 – HTC One GSM

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:48:50 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:48:50 EDT 2015 Acquisition finished: Tue Apr 7 13:18:40 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were not acquired Basic PIM related data was not acquired Maximum length PIM related data was not acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported Audio MMS messages were not acquired Image MMS messages were not acquired Video MMS messages were not acquired ALL stand-alone data files (Audio, Image, Video) were acquired All application data was acquired All Internet related data was acquired Social media related data was not acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Partial results achieved

244
245

246 ## 1.2.103   MDT-06 – HTC One GSM

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:49:09 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:49:09 EDT 2015 Acquisition finished: Tue Apr 7 13:18:46 EDT 2015 Acquire All acquisition was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
MDT-CA-07 Select-all mobile device data objects acquisition.	NA
MDT-CA-08 Select-individual mobile device data objects acquisition.	NA
MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected

Analysis:	Expected results achieved

247

248 ## 1.2.104   MDT-12 – HTC One GSM

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:49:28 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:49:28 EDT 2015 Acquisition finished: Tue Apr 7 13:18:51 EDT 2015 Notification of modified device memory data was not successful **Notes:**

Test Case MDT-12 Lantern v4.5.6	
	Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

249

1.2.105   MDT-19 – HTC One GSM

250

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:49:49 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:49:49 EDT 2015 Acquisition finished: Tue Apr 7 13:18:58 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected

Analysis:	Expected results achieved

251

1.2.106   MDT-22 – HTC One GSM

252

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:50:08 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:50:08 EDT 2015 Acquisition finished: Tue Apr 7 13:19:05 EDT 2015 Hash values were properly reported for individually acquired device data elements

Test Case MDT-22 Lantern v4.5.6	
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected

Analysis:	Expected results achieved

253

254   **1.2.107   MDT-24 – HTC One GSM**

Test Case MDT-24 Lantern v4.5.6	
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:50:27 EDT 2015
Device:	HTCOne_GSM
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:50:27 EDT 2015 Acquisition finished: Tue Apr 7 13:19:12 EDT 2015 GPS Coordinate data was not successfully acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected

Analysis:	Expected results Not achieved

255

256   **1.2.108   MDT-01 – HTC One CDMA**

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:50:58 EDT 2015
Device:	HTCOne_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:50:58 EDT 2015 Acquisition finished: Tue Apr 7 13:19:21 EDT 2015 Device connectivity was established via supported interface
Results:	

Assertion & Expected Result	Actual Result

Test Case MDT-01 Lantern v4.5.6	
	MDT-CA-01 Device connectivity via supported interfaces. as expected
Analysis:	Expected results achieved

257

1.2.109   MDT-02 – HTC One CDMA

258

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:51:16 EDT 2015
Device:	HTCOne_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:51:16 EDT 2015 Acquisition finished: Tue Apr 7 13:19:27 EDT 2015 Device acquisition disruption notification was successful
Results:	<table><tr><td>**Assertion & Expected Result**</td><td>**Actual Result**</td></tr><tr><td>MDT-CA-02 Notification of device acquisition disruption.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

259

1.2.110   MDT-03 – HTC One CDMA

260

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:51:36 EDT 2015
Device:	HTCOne_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:51:36 EDT 2015 Acquisition finished: Tue Apr 7 13:19:33 EDT 2015 Readability and completeness of acquired data was successful
Results:	<table><tr><td>**Assertion & Expected Result**</td><td>**Actual Result**</td></tr><tr><td>MDT-CA-03 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr></table>

Test Case MDT-03 Lantern v4.5.6	
Analysis:	Expected results achieved

261

1.2.111   MDT-04 – HTC One CDMA

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:51:56 EDT 2015
Device:	HTCOne_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:51:56 EDT 2015 Acquisition finished: Tue Apr 7 13:19:39 EDT 2015 IMEI, MEID/ESN were not acquired **Notes:** The MSISDN, IMEI, or ICCID were not reported in "Info".
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.</td><td>Not as expected</td></tr></table>
Analysis:	Expected results Not achieved

263

1.2.112   MDT-05 – HTC One CDMA

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:52:18 EDT 2015
Device:	HTCOne_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:52:18 EDT 2015 Acquisition finished: Tue Apr 7 13:19:46 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were not acquired

Test Case MDT-05 Lantern v4.5.6
Basic PIM related data was not acquired Maximum length PIM related data was not acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported Audio MMS messages were not acquired Image MMS messages were not acquired Video MMS messages were not acquired Audio files were not acquired Image files were acquired Video files were acquired All application data was acquired All Internet related data was acquired Social media related data was not acquired

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Partial results achieved

265

266 ## 1.2.113 MDT-06 – HTC One CDMA

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:52:39 EDT 2015
Device:	HTCOne_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:52:39 EDT 2015 Acquisition finished: Tue Apr 7 13:19:51 EDT 2015 Acquire All acquisition was successful

Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-CA-06 Acquire-all mobile device data objects acquisition.	as expected
	MDT-CA-07 Select-all mobile device data objects acquisition.	NA
	MDT-CA-08 Select-individual mobile device data objects acquisition.	NA

Test Case MDT-06 Lantern v4.5.6	
MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.	as expected
Analysis:	Expected results achieved

267

1.2.114 MDT-12 – HTC One CDMA

268

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:52:59 EDT 2015
Device:	HTCOne_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:52:59 EDT 2015 Acquisition finished: Tue Apr 7 13:19:58 EDT 2015 Notification of modified device memory data was not successful **Notes:** Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

269

1.2.115 MDT-19 – HTC One CDMA

270

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:53:18 EDT 2015
Device:	HTCOne_CDMA
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:53:18 EDT 2015 Acquisition finished: Tue Apr 7 13:20:04 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Assertion & Expected Result	Actual Result

Test Case MDT-19 Lantern v4.5.6		
	MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected
Analysis:	Expected results achieved	

271

1.2.116 MDT-22 – HTC One CDMA

272

Test Case MDT-22 Lantern v4.5.6		
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.	
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.	
Tester Name:	rpa	
Test Host:	p644381	
Test Date:	Tue Apr 7 07:53:45 EDT 2015	
Device:	HTCOne_CDMA	
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable	
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:53:45 EDT 2015 Acquisition finished: Tue Apr 7 13:20:09 EDT 2015 Hash values were properly reported for individually acquired device data elements	
Results:	**Assertion & Expected Result**	**Actual Result**
	MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected
Analysis:	Expected results achieved	

273

1.2.117 MDT-24 – HTC One CDMA

274

Test Case MDT-24 Lantern v4.5.6		
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates	
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	
Tester Name:	rpa	
Test Host:	p644381	
Test Date:	Tue Apr 7 07:54:05 EDT 2015	
Device:	HTCOne_CDMA	
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable	
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:54:05 EDT 2015 Acquisition finished: Tue Apr 7 13:20:17 EDT 2015 GPS Coordinate data was not successfully acquired	
Results:	**Assertion & Expected Result**	**Actual Result**
	MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected

Test Case MDT-24 Lantern v4.5.6	
Analysis:	Expected results Not achieved

275

1.2.118   MDT-01 – Nexus4

276

Test Case MDT-01 Lantern v4.5.6	
Case Summary:	MDT-01 Acquire mobile device internal memory over tool-supported interfaces (e.g., cable, Bluetooth, IrDA).
Assertions:	MDT-CA-01 If a mobile device forensic tool provides support for connectivity of the target device then the tool shall successfully recognize the target device via all vendor supported interfaces (e.g., cable, Bluetooth, IrDA).
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:54:33 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:54:33 EDT 2015 Acquisition finished: Tue Apr 7 13:20:24 EDT 2015 Device connectivity was established via supported interface
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-01 Device connectivity via supported interfaces.	as expected

Analysis:	Expected results achieved

277

1.2.119   MDT-02 – Nexus4

278

Test Case MDT-02 Lantern v4.5.6	
Case Summary:	MDT-02 Begin mobile device internal memory acquisition and interrupt connectivity by interface disengagement.
Assertions:	MDT-CA-02 If connectivity between the mobile device and mobile device forensic tool is disrupted then the tool shall notify the user that connectivity has been disrupted.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:54:50 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:54:50 EDT 2015 Acquisition finished: Tue Apr 7 13:20:39 EDT 2015 Device acquisition disruption notification was successful
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-02 Notification of device acquisition disruption.	as expected

Analysis:	Expected results achieved

279
280

281 ## 1.2.120   MDT-03 – Nexus4

Test Case MDT-03 Lantern v4.5.6	
Case Summary:	MDT-03 Acquire mobile device internal memory and review reported data via the preview-pane or generated reports for readability.
Assertions:	MDT-CA-03 If a mobile device forensic tool completes acquisition of the target device without error then the tool shall have the ability to present acquired data objects in a useable format via either a preview-pane or generated report.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:55:08 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:55:08 EDT 2015 Acquisition finished: Tue Apr 7 13:20:45 EDT 2015 Readability and completeness of acquired data was successful
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-03 Readability and completeness of acquired data via supported reports.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

282

283 ## 1.2.121   MDT-04 – Nexus4

Test Case MDT-04 Lantern v4.5.6	
Case Summary:	MDT-04 Acquire mobile device internal memory and review reported subscriber and equipment related information (e.g., IMSI, IMEI, MEID/ESN, MSISDN).
Assertions:	MDT-CA-04 If a mobile device forensic tool completes acquisition of the target device without error then subscriber and equipment related information shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:55:27 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:55:27 EDT 2015 Acquisition finished: Tue Apr 7 13:20:52 EDT 2015 MSISDN and IMEI were not acquired **Notes:** The MSISDN, IMEI, or ICCID were not reported in "Info".
Results:	<table><tr><th>Assertion & Expected Result</th><th>Actual Result</th></tr><tr><td>MDT-CA-04 Acquisition of mobile device subscriber and equipment related data in a useable format.</td><td>Not as expected</td></tr></table>
Analysis:	Expected results Not achieved

284
285

286   ## 1.2.122   MDT-05 – Nexus4

Test Case MDT-05 Lantern v4.5.6	
Case Summary:	MDT-05 Acquire mobile device internal memory and review supported data elements (i.e., PIM data, call logs, SMS, MMS, stand-alone files: audio, pictures, video, application related data: documents, spreadsheets, presentations, social-media data and Internet related data: bookmarks, visited sites).
Assertions:	MDT-CA-05 If a mobile device forensic tool completes acquisition of the target device without error then all supported data elements shall be presented in a useable format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:55:46 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:55:46 EDT 2015 Acquisition finished: Tue Apr 7 13:20:58 EDT 2015 Regular Length Address Book entries were acquired Maximum Length Address Book entries were acquired Special Character Address Book entries were acquired Blank Name Address Book entries were acquired Email addresses within Address Book entries were acquired Embedded graphics within Address Book entries were not acquired Basic PIM related data was not acquired Maximum length PIM related data was not acquired All Call Logs (incoming, outgoing, missed) were acquired All Call Log date/time stamps data were correctly reported ALL text messages (SMS, EMS) were acquired Correct date/time stamps were reported for all text messages Correct status flags were reported for all text messages Sender and Recipient phone numbers associated with text messages were correctly reported Audio MMS messages were not acquired Image MMS messages were not acquired Video MMS messages were not acquired Audio files were not acquired Image files were acquired Video files were acquired All application data was acquired All Internet related data was acquired Social media related data was not acquired
Results:	

Assertion & Expected Result	Actual Result
MDT-CA-05 Acquisition of all mobile device supported data elements in a useable format.	Partial

Analysis:	Expected results Not achieved

287
288

289 ## 1.2.123 MDT-06 – Nexus4

Test Case MDT-06 Lantern v4.5.6	
Case Summary:	MDT-06 Acquire mobile device internal memory by selecting a combination of supported data elements.
Assertions:	MDT-CA-06 If a mobile device forensic tool provides the user with an Acquire All device data objects acquisition option then the tool shall complete the acquisition of all data objects without error. MDT-CA-07 If a mobile device forensic tool provides the user with an Select All individual device data objects then the tool shall complete the acquisition of all individually selected data objects without error. MDT-CA-08 If a mobile device forensic tool provides the user with the ability to Select Individual device data objects for acquisition then the tool shall acquire each exclusive data object without error. MDT-CA-09 If a mobile device forensic tool completes two consecutive logical acquisitions of the target device without error then the payload (data objects) on the mobile device shall remain consistent.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:56:05 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:56:05 EDT 2015 Acquisition finished: Tue Apr 7 13:21:03 EDT 2015 Acquire All acquisition was successful
Results:	<table><tr><td>**Assertion & Expected Result**</td><td>**Actual Result**</td></tr><tr><td>MDT-CA-06 Acquire-all mobile device data objects acquisition.</td><td>as expected</td></tr><tr><td>MDT-CA-07 Select-all mobile device data objects acquisition.</td><td>NA</td></tr><tr><td>MDT-CA-08 Select-individual mobile device data objects acquisition.</td><td>NA</td></tr><tr><td>MDT-CA-09 Perform back-to-back acquisitions, check device payload for modifications.</td><td>as expected</td></tr></table>
Analysis:	Expected results achieved

290

291 ## 1.2.124 MDT-12 – Nexus4

Test Case MDT-12 Lantern v4.5.6	
Case Summary:	MDT-12 After a successful mobile device internal memory, alter the case file via third-party means and attempt to re-open the case.
Assertions:	MDT-AO-08 If the case file or individual data objects are modified via third-party means then the tool shall provide protection mechanisms disallowing or reporting data modification.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:56:25 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:56:25 EDT 2015 Acquisition finished: Tue Apr 7 13:21:09 EDT 2015 Notification of modified device memory data was not successful **Notes:**

Test Case MDT-12 Lantern v4.5.6	
	Lantern.db was modified, the case file was re-opened without informing the user that the case data was altered. The modifications made within Lantern.db were displayed within the modified case file.

Results:	

Assertion & Expected Result	Actual Result
MDT-AO-08 Notification of modified device case data.	Not as expected

Analysis:	Expected results Not achieved

292

1.2.125   MDT-19 – Nexus4

293

Test Case MDT-19 Lantern v4.5.6	
Case Summary:	MDT-19 Acquire mobile device internal memory and review data containing non-ASCII characters.
Assertions:	MDT-AO-13 If the mobile device forensic tool supports display of non-ASCII characters then acquired data containing non-ASCII characters should be presented in their native format.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:56:44 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:56:44 EDT 2015 Acquisition finished: Tue Apr 7 13:21:14 EDT 2015 Non-ASCII Address book entries were acquired and properly displayed Non-ASCII text messages were acquired and properly displayed
Results:	

Assertion & Expected Result	Actual Result
MDT-AO-13 Acquisition of data containing non-ASCII characters presented in their native format.	as expected

Analysis:	Expected results achieved

294

1.2.126   MDT-22 – Nexus4

295

Test Case MDT-22 Lantern v4.5.6	
Case Summary:	MDT-22 Acquire mobile device internal memory and review hash values for vendor supported data objects.
Assertions:	MDT-AO-15 If the mobile device forensic tool supports hashing for individual data objects then the tool shall present the user with a hash value for each supported data object.
Tester Name:	rpa
Test Host:	p644381
Test Date:	Tue Apr 7 07:57:01 EDT 2015
Device:	Nexus4
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:57:01 EDT 2015 Acquisition finished: Tue Apr 7 13:21:23 EDT 2015 Hash values were properly reported for individually acquired device data elements

Test Case MDT-22 Lantern v4.5.6		
Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-AO-15 Hash values for individual data and case presented in a useable format.	as expected
Analysis:	Expected results achieved	

296

297   1.2.127   MDT-24 – Nexus4

Test Case MDT-24 Lantern v4.5.6		
Case Summary:	MDT-24 Acquire mobile device internal memory and review data containing GPS longitude and latitude coordinates	
Assertions:	MDT-AO-16 If the mobile device forensic tool supports acquisition of GPS data then the tool shall present the user with the longitude and latitude coordinates for all GPS-related data in a useable format.	
Tester Name:	rpa	
Test Host:	p644381	
Test Date:	Tue Apr 7 07:57:17 EDT 2015	
Device:	Nexus4	
Source Setup:	OS: Mac OS X v10.9.5 Interface: cable	
Log Highlights:	Created by Lantern v4.5.6 Acquisition started: Tue Apr 7 07:57:17 EDT 2015 Acquisition finished: Tue Apr 7 13:21:29 EDT 2015 GPS Coordinate data was not successfully acquired	
Results:		
	Assertion & Expected Result	**Actual Result**
	MDT-AO-16 Acquisition of GPS related data presented in a useable format.	Not as expected
Analysis:	Expected results Not achieved	

298